Meeting on July 30th 2002

Minutes taker Ina Reichel

Those present J. Corlett, I. Reichel, A. Wolski, A. Zholents

Date July 30 2002

Distribution
    J. Corlett
    I. Reichel
    D. Robin
    S. de Santis
    W. Wan
    A. Wolski
    A. Zholents

Overview of topics

1 Update on a design of the first bunch compressor (I. Reichel)

Ina now has a design for the compressor line which has zero dispersion at the end (see Fig. 16). Sasha suggested to use a simpler line instead of the DBAs. He suggests to use just one dipole per bending sectionand then put five quadrupoles in bewteen which can all have the same strength (the pattern would be `BFDFDFB`). Ina will look at that.

Ina will start tracking this lattice using TraFiC4. If there are no problems with CSR she will try to rematch the lattice using a smaller bending radius which should make the beamline more compact.

2 Cavity tracking differences between different codes (A. Wolski)

The current conclusion is that MAD uses the correct fringe fields but does not include the focussing due to the body of the cavity. In our case this effect is very small and therefore should be negligible.
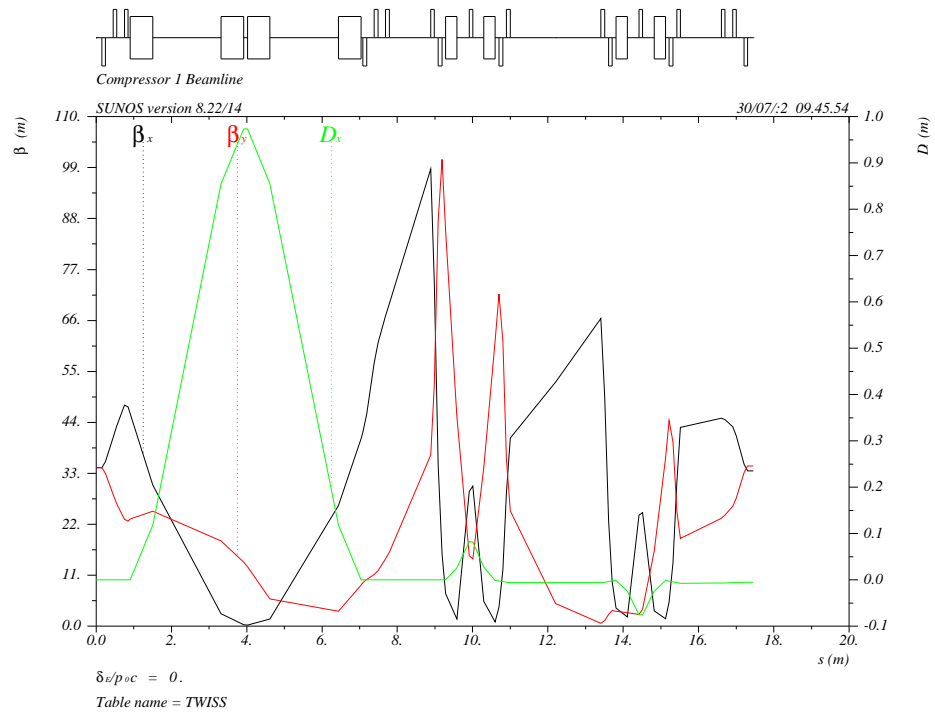
Figure 16: Lattice for the first compressor using a dedicated compressor and two DBAs.